

1895

ANNUAL

CATALOGUE  
OF

The

# IRON AGE

Farm &  
Garden  
Implements

MANUFACTURED BY

BATEMAN M'F'G CO.

GRENLOCH, N. J., U.S.A.

WORKS ESTABLISHED  
1836



Office of

**Bateman Manufacturing Co.**

*Jan. 1st, 1895.*

*We trust our friends will bear with us if we display enough egotism to imagine that the line of goods we show up in the following pages are just a little bit better than ever before; more perfectly adapted to the various purposes for which they are intended; more skillfully constructed; of greater strength and consequent durability; more convenient in use, and of handsomer finish.*

*We have added to our line of Iron Age Implements a Pivot Wheel Riding Cultivator, novel in some features and certainly worthy the attention of those in need of a tool of this character.*

*We also give a place in our catalogue to our Improved-Robbins Potato Planter, which we have manufactured heretofore and of which in its new improved shape we cannot speak too highly. We earnestly commend it to the notice of all potato growers, believing they will find it to be the machine they have been looking and hoping for.*

*We shall be glad to correspond with wide awake, progressive farmers and dealers, and believe they will find it to their profit to use and handle the Iron Age and kindred goods.*

*Sincerely yours,*

**BATEMAN MFG. CO.**

*In ordering, please give, if possible, full shipping directions; when the choice of route is left with us we shall use our best judgment; also our best efforts to secure low rates of freight.*

*We deliver all goods F. O. B. Philadelphia; local freight charges to Philadelphia paid by us.*

*TO EXPORTERS our goods offer special inducements. All parts are thoroughly interchangeable and when "knocked down" pack very close.*

*Boxing for export at cost.*

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**Send for Price List, with Terms and Cash Discount.**

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**NO GOODS SENT OUT ON COMMISSION.**

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*NOTE—We regret to learn that, owing to the great popularity of the "IRON AGE," some dealers cannot refrain from advertising themselves as selling it, while handling an inferior imitation.*

*Any direct violation of our Trade Mark we certainly propose to resent.*



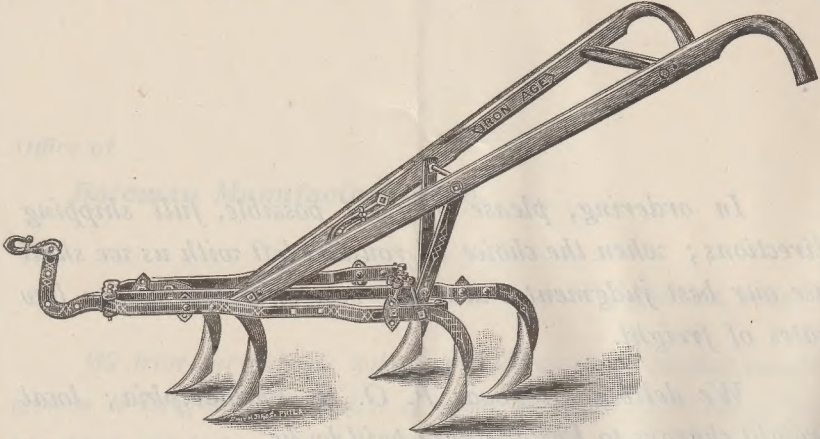


Fig. 10.

### THE "IRON AGE" CULTIVATOR, PLAIN.

Price No. 1. Plain, \$6.00. With plain wheel, add \$1.00. With Lever Wheel, add \$1.75. With Lever Expander, add \$1.25.

Packed Weight, plain, 50 lbs.

Since its first introduction in 1875, so many thousands have been sold and scattered so widely that it seems unnecessary that we should tell what the "Iron Age" is, how it is made, or what it will do in the field. It is too well known to require this introduction. Suffice it to say that we are constantly striving for improvement, and believe we "get there" in making the tool the best and most complete on the market.

The "Iron Age" is now made of *all steel*, excepting, of course, the handles, wheel and some minor parts that are of the *best malleable iron*. The standards are of *solid steel*, which is, we believe, the only shape to give the required *stiffness*, with facility of repair by an ordinary smith.

We wish to call particular attention to our improved shape of side bars. For some years we have been having increased calls for "Iron Age," Nos. 1 and 2, equipped with *seven teeth*, especially when used with narrow points. This has led us to the adoption of a shape that enables the tool to be converted at will from a five-tooth to a seven-tooth and vice versa. This changeability is plainly shown in Figures 10 and 57, the latter showing the Cultivator with seven narrow points, (No. 0).

In the above cut we represent the "Iron Age" in its simplest form—as a plain Cultivator. We sell it in this shape largely, as the various attachments can be very easily added by the dealer or farmer as they may be sold or needed.

The "Iron Age" is furnished in three sizes:

No. 1, for general use, weight 50 lbs.

" 2, for heavier work, " 56 "

" 4, two-horse, 7-tooth " 85 " Plain only.

In ordering, to avoid errors, please state plainly, size, style of point, and whether the cultivator is wanted *plain*, as in Figure 10, or *combined*, as in Figure 11. Also, with or without Lever Expander and Lever Wheel.

SEE COMBINATIONS, POINTS, ETC., ON FOLLOWING PAGES.  
ALL GENUINE IRON AGE CULTIVATORS BEAR OUR

—look for it in order to prevent imposition.

Trade  
"Iron Age"  
Mark.

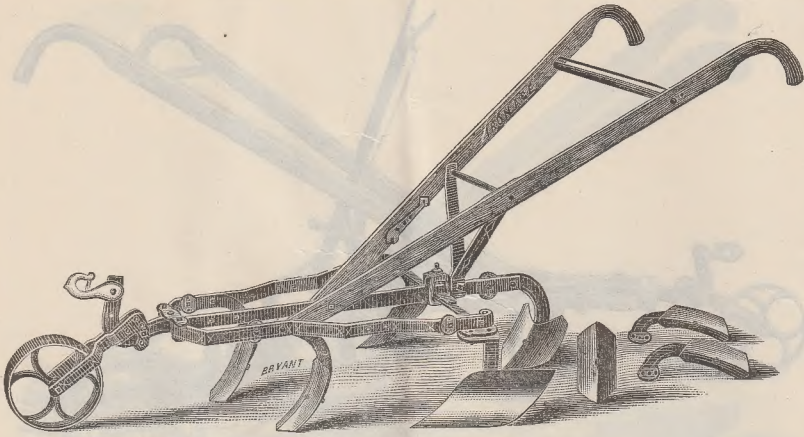


Fig. 11.

## THE "IRON AGE" HORSE HOE.

Shown with Wheel, and Cultivator Combination.

Price No. 1.

Plain Horse Hoe, . . . . .	\$7.00
With Cultivator Combination, . . . . .	8.44
With Plain Wheel, add . . . . .	1.00
With Lever Wheel, add . . . . .	1.75
With Lever Expander, add . . . . .	1.25

Packed Weight, as in Cut, 70 lbs.

For solidity of construction, adaptation to a great variety of purposes, and ease of handling, the "Iron Age" stands to-day without a peer.

Its reversible hoes or plows are bolted to heavy, *solid* steel standards of their own (not attached to the light cultivator standards).

These hoe standards have several adjustments, hilling the crop much or little, as desired, and also suiting the tool to various soils as well as different crops.

On succeeding pages is shown this valuable implement adapted to various purposes, and there seems scarcely a limit to the work an intelligent farmer can accomplish with it and its numerous attachments.

The machine is shown in above cut with Horse Hoe attachment and Sweep; as in some sections our No. 69 or 84 Point is preferred to the Sweep, we are prepared to furnish it either way, as ordered.

The term "Horse Hoe Attachment" includes the two side plows with standard, and does not embrace the Sweep. We desire to call particular attention to this point, as in some cases our customers have been misled. In ordering the "Horse Hoe Attachment," if the Sweep is desired, it should be ordered as a separate part; while in ordering the "Horse Hoe Complete" or "Horse Hoe and Cultivator Combined" (as in above cut), if nothing is specified in regard to the Sweep, we take it for granted that the Sweep is desired and so send it.



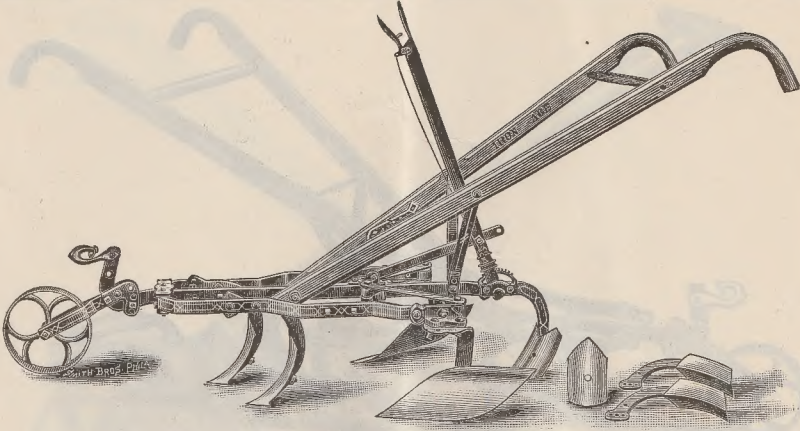


Fig 61.

## THE "IRON AGE" WITH LEVER ADJUSTMENT.

Price No. 1.

Complete (as in Cut,) . . . . .	\$10.69
For the addition of Lever Expander to "IRON AGE," in any shape, add . . . . .	1.25
Lever Expander Attachment (only) . . . . .	1.75

Packed Weight, 75 lbs.

At times, as is well known to all practical farmers, it is extremely important that a Cultivator should be so constructed as to be readily and instantly adjusted in width, even making this opening and closing movement while in its forward progress.

We think our cut plainly shows the simple manner in which we accomplish this, and we believe we have, by the use of a double set of expander bars on the toggle-joint, largely overcome the inherent weakness and general shakiness which usually accompany the attempt to produce such a tool. Our attachment is designed with a special view of accomplishing this result, and is simple and strong, while smooth and steady in its operation.

We do not think it wise to send out all of our Cultivators and Horse Hoes equipped with this Lever Adjustment, as some still prefer the simpler tool at a lessened cost—these are shown on preceding pages.

We wish it, however, to be distinctly understood that this adjustment is applicable to and can be furnished with the "Iron Age" in any of its combinations.

The cut on opposite page shows the handle braces we are now sending out with all of our Horse Hoes with Lever Expanders—a decided improvement.

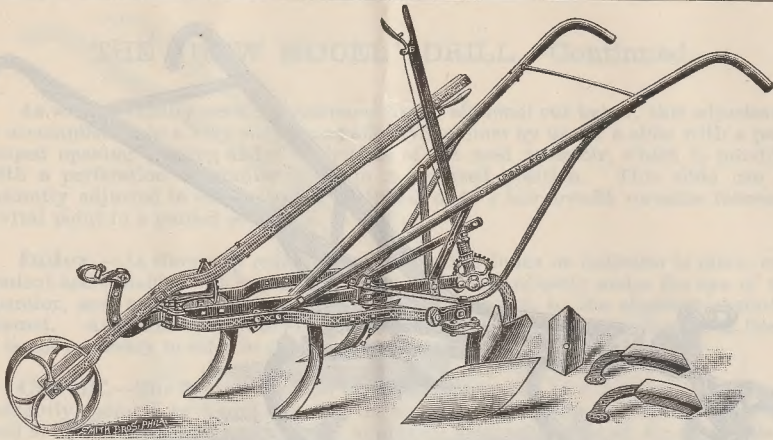
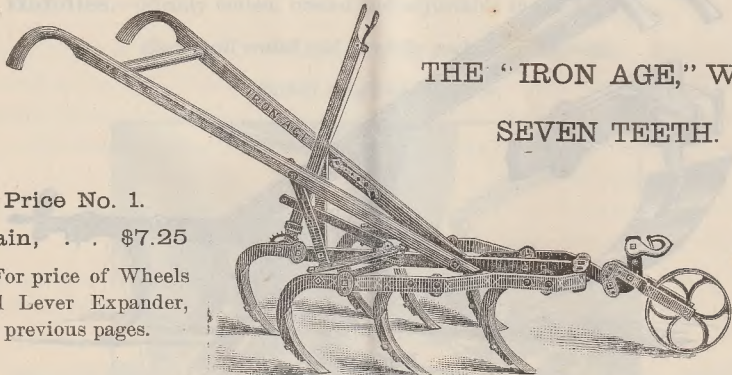


Fig. 64.

Prices as shown on previous pages. Complete as in cut, . \$11.44

Packed Weight, 80 Pounds.

We represent in above cut the Iron Age Horse Hoe and Cultivator in its latest improved and most complete form, being provided not only with Lever Expander and Lever Wheel, but also supplied with handle braces, adding great stiffness to the tool and largely overcoming the weakness usually found in a Lever Expander. We claim this tool, in its present shape, represents the highest type of this class of implements, and one or more should be found in the hands of every progressive farmer. When so ordered we furnish the Iron Age with *steel* handles, as shown in cut, making a tool practically indestructible.



THE "IRON AGE," WITH  
SEVEN TEETH.

Price No. 1.

Plain, . . \$7.25

For price of Wheels  
and Lever Expander,  
see previous pages.

Fig. 57.

As stated on a preceding page, there has been, lately, a demand for an adaptation of our No. 1 and No. 2 Cultivators to accommodate an additional pair of teeth, thus transforming it into a seven-tooth Cultivator. It is obvious that very many times in the cultivation of crops a Cultivator having seven instead of five teeth becomes very desirable, and we are now able, by means of the new shape of our side bars, to offer the "Iron Age" so that it can be converted, when desired, into a seven-tooth Cultivator. Of this arrangement we cannot speak too highly. Equipped with narrow teeth, No. 0, ( $1\frac{1}{4}$  inches), or No. 1, (2 inches), it does most excellent work in the first workings or in flat cultivation of crops, running very deep, and still throwing furrows so small as to endanger young plants but little. On this account tobacco growers are especially well pleased with the "Iron Age" in this shape. It most thoroughly pulverizes all conditions of soil.

As will be plainly seen from the above cut, the change is made simply by the use of an additional pair of standards and teeth.



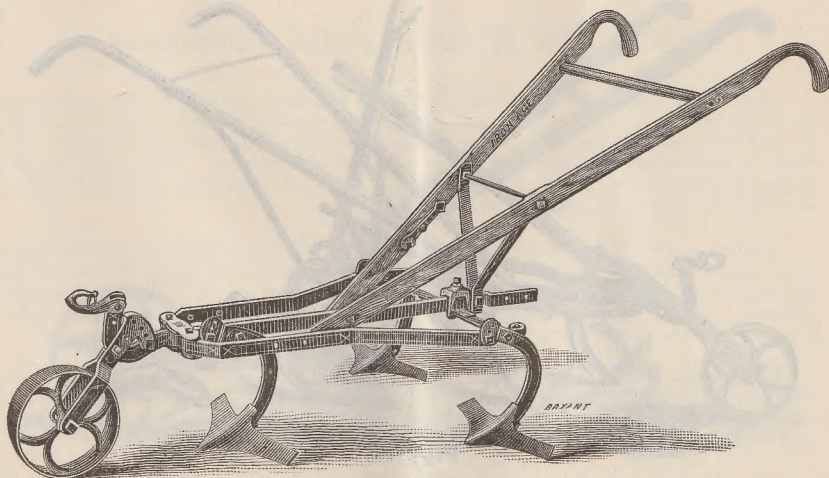


Fig. 55.

In this cut we represent the "Iron Age" equipped with No. 17 Sweeps in such a manner that a wide cut is made and at an exceedingly shallow depth. This arrangement is particularly intended for orange groves and cotton fields where very flat cultivation is called for.

They can, of course, be set to run deeper, and be used in various combinations. We make them in four sizes: 8, 10, 12 and 15 inches in width.

Prices, respectively, 40, 45, 50 and 60 cents, each.

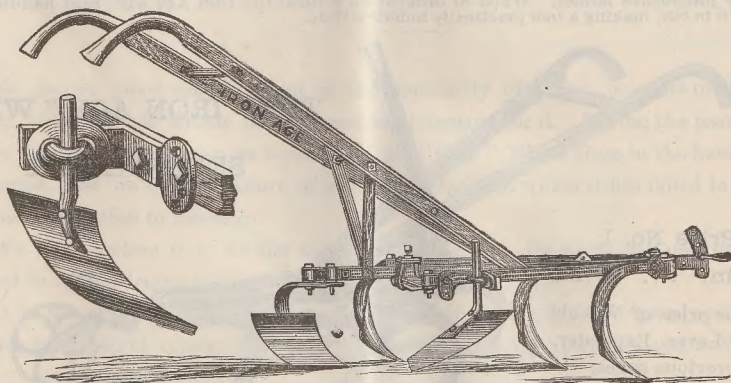


Fig. 14.

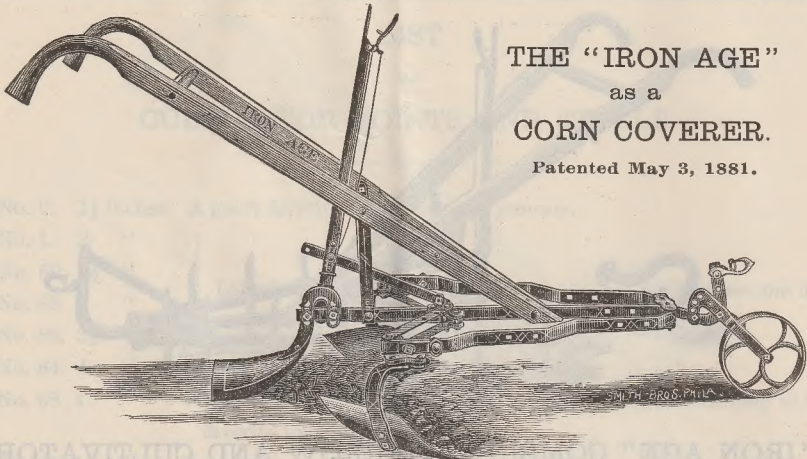
## THE "IRON AGE" WITH ADJUSTABLE WEEDER.

Patented May 3, 1881.

To meet a want felt especially amongst Truckers, for a blade or steel adapted to fine, close work, in hilled as well as level crops, we offer our patented Adjustable Weeder Attachment. As shown in above cut (arranged for cultivation of sweet potatoes), it consists of a thin, curved steel blade, on a standard that is ADJUSTABLE IN EVERY CONCEIVABLE WAY, and yet held firmly enough to accomplish the work. If rightly adjusted it cannot be choked, while from the peculiar shape of the hoe it can be run very close to the smallest plants without injury to them.

Order as "Adjustable Weeder." Either right or left hand. Price, \$1.50.





THE "IRON AGE"  
as a  
CORN COVERER.

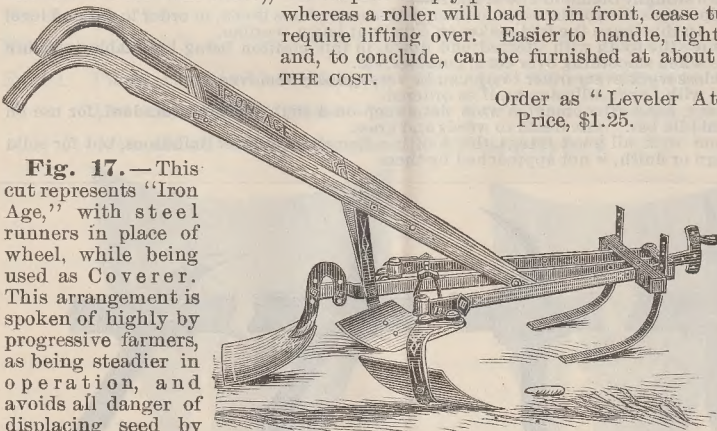
Patented May 3, 1881.

**Fig. 16.**—For covering corn, potatoes, peas, etc., and making up rows for root crops, etc., the "Iron Age," with attachments, as shown in cut, has no equal, and really is not approached by anything in the market, quite a *furore* being created by its adaptation to these purposes.

This work is accomplished by the use of our Horse Hoe Attachment, as shown, with wheel in front, and patented "Leveler" Attachment in rear. A few moments' reflection will convince one of the great superiority of our Horse Hoe Attachment for this purpose, over a tool using *scrapers* or one with sled-like steels; these scrape all clods, stones and hot surface soil into the row—*just what you want to keep out*—while our attachment does nearly the opposite.

In presenting a "Leveler" to do the work generally done by a roller—clumsy and heavy—we know we are somewhat off the beaten track, but its success is complete—it works beautifully. It is similar to an inverted shovel blade, highly polished on under side, while, being adjustable in depth as well as inclination, it carries the weight of the cultivator, to which is added the down-draft of the hoes, thus sufficiently "firming" the soil. In case the hoes throw too much dirt (as variation in soil will cause), the surplus simply passes over the sides of the Leveler, whereas a roller will load up in front, cease turning, and require lifting over. Easier to handle, lighter of draft, and, to conclude, can be furnished at about ONE HALF THE COST.

Order as "Leveler Attachment."  
Price, \$1.25.



**Fig. 17.**—This cut represents "Iron Age," with steel runners in place of wheel, while being used as Coverer. This arrangement is spoken of highly by progressive farmers, as being steadier in operation, and avoids all danger of displacing seed by wheel, which danger is still lessened by using two horses, as is frequently done. Also in this shape, without the Leveler, it makes an admirable tool for passing astride of the row, barring cotton, etc. Order as "Runner Attachment." Price \$1.25.

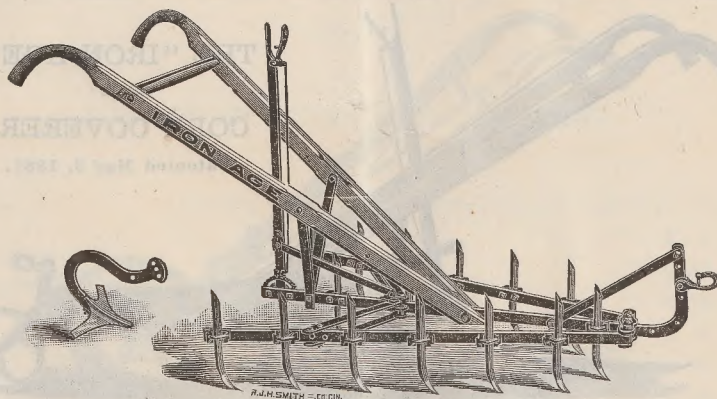


Fig. 62.

**"IRON AGE" COMBINED HARROW AND CULTIVATOR.  
STEEL DIAMOND TEETH.**

Plain, \$7.50; with Lever (as in Cut), \$8.75. For Wheel, add \$1.00.

Sweep Attachment, \$1.25.

Pat. Jan. 31 and Feb. 14, 1888.

Packed Weight, 60 lbs.

Above we represent our "Iron Age Combined Harrow and Cultivator," a tool that has, since its introduction, seemed to go "right to the spot" among the farmers over the whole land.

As plainly shown in cut, the teeth are diamond shaped, with a small cultivator tooth forged on one end—steel of course.

With its four changes, easily made, we believe it to be unique, as well as thoroughly practical.

The various positions of teeth are shown by cut below.

No. 1. Shows Cultivator Tooth, and is thus used for working very close to small plants of tobacco, potatoes, etc. Thoroughly pulverizes, but throws no dirt on plants.

No. 2. As a straight Diamond Tooth Harrow.

No. 3. Represents the tooth as a Smoother, with sharp points down, in order to cut and level the surface. In this shape the tool makes an excellent Lawn Scarifier.

No. 4. Shows the tooth with sheared end down, in this position being less liable to injure young plants when smoothing over corn, potatoes, etc.

For very close work every other tooth can be very quickly removed.

Furnished with Lever Adjustment, if so ordered.

We also have, as an attachment, a wide, flat sweep on a high throated standard, for use on rear end of middle bar. Sure death to weeds and grass.

In common with all good things, this tool has numerous inferior imitations, but for solid quality, design or finish, is not approached by them.



Fig. 21



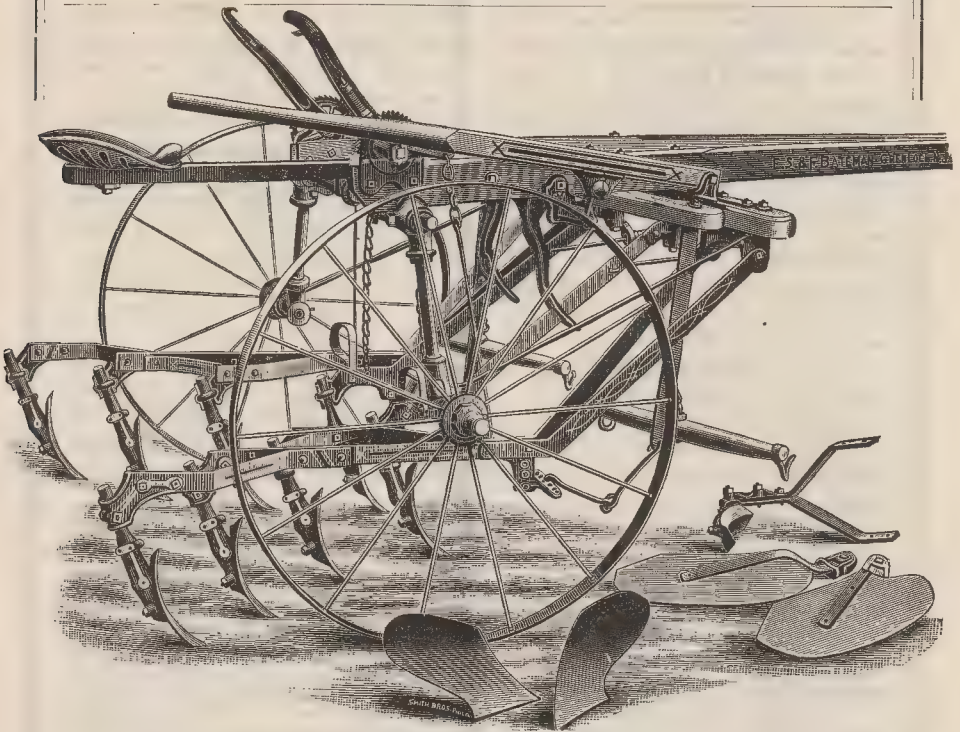


Fig. 59.

### THE "IRON AGE" RIDING CULTIVATOR.

Patented, April 12, 1892.

Price, - - \$32.00.

Complete with One pair of Plows, Shields and Fallow Tooth Attachment.

Packed Weight, 400 lbs.

Riding, or Wheel, Cultivators of various kinds have been in use so long that it is, of course, entirely unnecessary for us to tell of their advantages in the way of reducing the *cost* of cultivating crops and the possibility of doing it more *promptly* by reason of the less time consumed, not to mention the fatigue saved the operator.

It is, therefore, only necessary for us to show that in the "Iron Age" we offer a tool superior in numerous points to any of the good tools of this kind already in the field. We have for several years carefully studied what is needful in a Riding Cultivator to be a perfect implement, and believe we have well covered the ground in the "Iron Age."

Even a few hours work on one of the old style tools will tell the user in the most convincing manner that the guidance of the gangs, or even the pair of independent teeth, by the feet, should be a thing of the past; it is laborious and unsatisfactory work, to make the best of it.

We offer then, as a *novelty*, an arrangement by which this wearisome work of guiding the teeth by the feet is almost entirely dispensed with, and by the use of a *single lever* all misplaced hills are easily and quickly dodged.

Further than this, by the same lever the independent pair of teeth are so completely under the control of the operator that the two teeth can be opened out to pass a wide-spreading plant; or, by simply depressing the lever, brought so closely together as to thoroughly cultivate the space between the hills. This is not, to our knowledge, attempted by any other implement on the market, and it is needless for us to point out to any intelligent farmer how capable it is of close, exact work among small plants. We *know* that "truckers" have been looking for and demanding just such a Cultivator. The front teeth are provided with a pair of foot loops, to be used in case of an unsteady team that requires the use of both hands in driving, and also at ends of rows for the same reason. Ordinarily the feet should be placed on the outside gangs, in order to give more pressure, when required. As shown by the cut, we have a hitch, adjustable in two ways—lower, for hard ground, and sidewise, to overcome the leading of the plows.

We call attention to the manner of attaching the teeth, having a steel standard which can be instantly adjusted in depth or angle of cut, or removed altogether. Farmers tell us, it is "sensible," and "just the thing." Plows are furnished with the Cultivator, but, by this adjustment, the teeth can be set at such a sharp angle and the soil cast to or from the crop so strongly as to render the plows almost superfluous.

As shown by the cut, the outside teeth, with their section of frame, can be quickly removed, reducing the Cultivator to six teeth. The steel points sent out on the Cultivator are  $2\frac{1}{2}$  inches in width and 10 inches long, while we have also, of same length, points  $1\frac{1}{4}$  and  $3\frac{1}{2}$  inches in width, meeting a call for these extremes. Moreover, any of our "Iron Age" points and shares can be used on this implement. Even the Horse Hoe Attachment, as used on the one-horse Cultivator, can be attached and excellent work done in covering potatoes, making up rows, etc.

The axle—steel, of course—is one straight piece, and held in place by a single bolt, giving the farmer an opportunity of replacing same, when worn, with but little trouble or expense. A Cultivator, to do good and satisfactory work in small plants, should run steadily, and not sway from side to side on worn out axles.

As shown by the engraving, the wheels and gangs are quickly adjusted in width, and the seat in height.

Attention is called to our new arrangement of seat as shown on opposite page.

We would also call attention to the fact that we have made a special effort to have the implement very close geared, making it specially adapted to the small fields of the Eastern truck farmer.

In common with our full line of "Iron Age" goods, the entire frame of this Cultivator is of *steel*, making it a comparatively light and very neat appearing implement. It is constructed in a most thorough manner, is handsomely finished, and takes the eye of every farmer.

With each cultivator is sent a pair of turning plows, shields and fallow tooth attachment.

We are selling this implement on strict territorial lines, assigning to a dealer what ground he can thoroughly canvass, and protecting him from outside interference, in order that he may reap the benefit of such canvass.

The Cultivator has given since its introduction unqualified satisfaction, its users being enthusiastic in its praise. We give below one unsolicited testimonial to its merits:

"I have used six different makes of Riding Cultivators in the last twelve years, and after using the "Iron Age" for all crops, I can recommend it as the complete and ideal machine we have been looking for. It leaves no balks in the corn field, is quickly and easily changed to work another crop, and I defy anybody to do better work with any tool than I can do with the "Iron Age" in corn, potatoes or truck.





Fig. 65.

## THE "IRON AGE" AS A PIVOT WHEEL CULTIVATOR.

Price, - - - \$32.00

Complete with One Pair of Plows, Shields and Fallow Tooth Attachment.

Packed Weight, 400 lbs.

For cultivation of crops on hillsides, or for work among *very* crooked and irregular rows, there probably can be no cultivator so well adapted to the purpose as one making use of what we may call pivoted wheels, the wheels being guided by the feet and thus carrying the entire implement, with its gangs of teeth to right or left, as desired. In devising our Pivot Wheel Cultivator we have endeavored to provide several very essential features, and believe, in these respects, the tool will be found to excel any similar one offered.

It has wonderful ease of guidance, the pivots being vertical, near the wheels, and the *ends resting upon hardened steel balls.*

The gangs are very rigid in order they may instantly follow the direction by the wheels. For hilly sections we are prepared to furnish it with wheels having *flanged* tires to prevent slipping. Seat is arranged to drop below the arch bar, as shown in cut, or can be adjusted above it.

We would call attention to the great adjustability of the tool, to the fact that the gangs can be reduced to three, or even two teeth each, by the removal of the outside and inside teeth; while it will be noticed we have retained the other valuable features of our rigid frame cultivator.

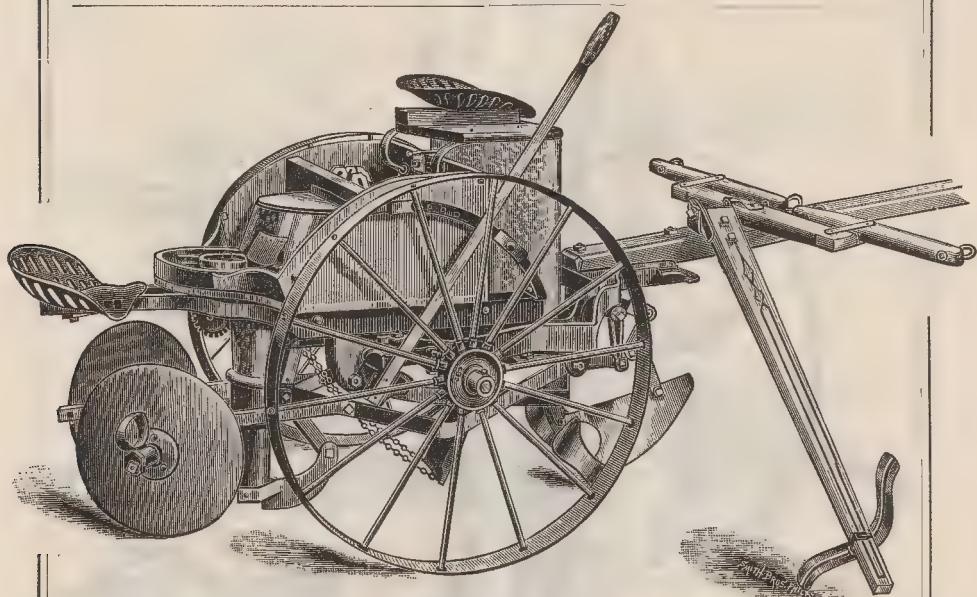


Fig. 66.

## THE IMPROVED-ROBBINS POTATO PLANTER.

Patented May 24, 1892. Other Patents Applied for.

### PRICE.

With Fertilizer Distributor,	\$65.00
Without " "	55.00
Pea and Corn Sower Attachment,	5.00
Leveler Attachment,	1.25

It is needless to speak of the slow, laborious method of potato planting as practiced by the large majority of growers; of the consequent improvident waste of time just at the opening of the busy season, and the interference caused by the uncertain weather of early spring. It is all too well known to need even a passing mention, as it is certainly impressed on the minds of thinking farmers that a speedier and more economical method is needed. When the proper season arrives—when the weather is just right and the time just fits in with other business—the potato grower should be prepared to do his planting promptly and with as little delay as possible. On the other hand, the potato crop is so costly,—costly in high priced seed, thorough preparation of soil, frequent cultivation and application of insecticides, followed by expensive harvesting of the crop, it behooves the grower to “make haste slowly.” He wants machinery to aid him, but that machinery should be of such character that the quality of work must be unquestioned.

It must be quality rather than quantity. With the Improved-Robbins, however, the farmer has the comfortable assurance of attaining both, easily planting with it from four to seven acres per day, and such perfection of potato planting was never before accomplished. It is simply ideal.

The operation of the planter is so simple that it seems scarcely necessary to do aught than to call attention to the cut.

The opening plow is a small double mould board plow, preceded by a thin steel runner to prevent clogging with trash and which divides the soil for the plow. This plow throws out on each side a free furrow of loose soil, with no packing or wedging to crowd the future growth of the crop. Immediately following, comes the deposit of fertilizer (if used) in a broad stream across the bottom of the furrow.



The seed is not punctured or injured in any manner, but is prepared in the usual fashion for hand planting, and placed in a hopper. It is then carried by means of an elevator wheel and deposited into the corresponding pockets of the revolving feed wheel.

In actual operation, from sixty to seventy-five per cent. of the seed is found to be correctly fed, leaving for the feeder only the supplementing and correcting the operation of the machine; taking out the pieces where they are doubled, and putting in where missed.

This feed wheel carries each successive piece of potato over the potato tube, and drops it through to the furrow below.

This operation being in sight, gives the assurance that the seed is actually deposited,—there can be no speculation as to whether a row has any seed in it; there are no misses; no doubles; no trouble on hillsides.

Neither can any injury result from contact of seed with fertilizer, as the former is deposited below the fertilizer, while the latter is also thoroughly mixed with the soil.

We wish to speak particularly of the fertilizer distributor on the Improved-Robbins, as we believe it to be beyond question the best method of distributing fertilizer yet adopted.

The fertilizer is placed in a round hopper of galvanized iron, holding about one hundred pounds, and is fed downward through a central opening formed by a straight agitator shaft.

This feeding is accomplished by a winged scraper, which descends by its own gravity as the material is fed away, while the fertilizer, falling upon a cone in a light, loose condition, is thrown by this cone outward on to a revolving disc, which in turn carries it to the gate opening at its edge. All waste of fertilizer when turning at ends of rows is avoided by a simple arrangement whereby the feeder can instantly close the gate.

The capacity of the distributor is up to a ton per acre and even more, depending of course, largely upon the condition of the fertilizer.

The amount sown is quickly and easily regulated by the adjustment of gate or change of gear wheels.

The speed of the wheel which drops the potatoes, is likewise regulated by a simple change of sprocket wheels, those sent out with planter dropping at distances of about 12, 14, 15½, 17, 18½ or 20 inches.

The handling of the planter is exceedingly simple and easy, the movement of one lever stopping both potato and fertilizer feed and at same time raising the entire gang of opening plow, potato tube and covering discs entirely free from the ground.

Provision is made for adjustment of the lever to suit the "dead furrows" or "backings" there may be in the field.

The draft of the machine is light, as the soil moved is lifted—not crowded or wedged out—and the wheels being high, with wide, concave rims.

No side draft is possible, as the gearing is driven from both wheels.

We would also emphasize the worth of this machine for use in making up rows for cabbages, sweet potatoes, etc., doing the marking, furrowing, sowing the phosphate and hilling so perfectly that it is a pleasure to see the work done so well and so economically.

For planting field corn in drills it is only necessary for a boy to drop into the feed wheel the same as for potatoes, regulating the distance apart in same manner, while for peas, beans, ensilage etc., we have an attachment to put on in place of the feed wheel and which has given perfect satisfaction for these purposes.

Also, as another attachment we have the Leveler, for leveling and smoothing the row, a capital thing to do in some soils.

We claim the planter to be one of the most thoroughly constructed machines offered to the farming public; it is carefully made of the very best materials and consequently is strong, durable and thoroughly practical.

No potato grower, even if he plants but a few acres, can afford to be without it. If he clings to the old time methods of hand-planting, he is handicapped,—he is really almost out of the race—he cannot successfully compete with modern machinery. With the Improved-Robbins he has all the advantages of hand-planting with none of its disadvantages. Mr. W. I. Chamberlain says, in the *Ohio Farmer*: "It is hand dropping spaced with unerring accuracy by machinery."

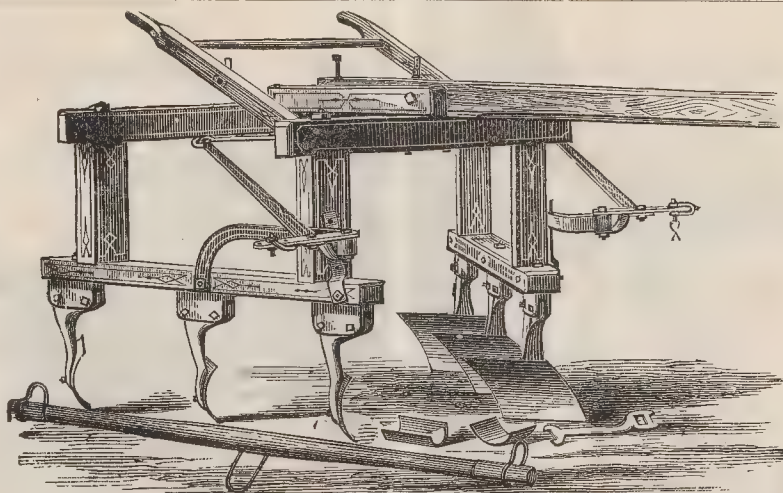


Fig. 24.

**THE "RIGG'S" GANG PLOW.**

With Bateman's "Improved Hitch and Draft Equalizer."

Patented August 9, 1881.

Price, as shown, \$18.00. Cultivator Teeth, per set, extra, \$3.25.

The Gang Plow represented above is one long and favorably known in some of the Atlantic States. We have, however, greatly improved its construction, particularly by the addition of our patented Hitch and Draft Equalizer. This improved hitch, as will be seen from cut, removes the most serious objection to the old style Rigg's, as it entirely obviates the use of a double-tree, allows free passage of corn through the arch and brings the draft on the lower frame, where it should be. Also adjustable in height and width of draft. Neck yoke of extra length. We now supply cultivator teeth with wrought iron standards, by the use of which the implement is converted into a most complete two-horse Cultivator.

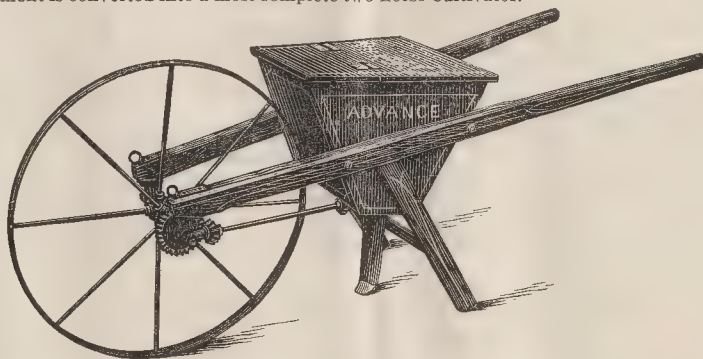


Fig. 56.

**"ADVANCE" FERTILIZER DRILL.**

Price, \$9.00.

Packed Weight, 40 lbs.

The increased use of commercial fertilizers has fairly compelled the farmer and planter of the present day to provide himself with improved appliances for properly and economically distributing these adjuncts of modern farming.

We claim the "Advance" to be the best low-priced distributor on the market, and would call attention to its distributing disk, of *galvanized* iron, which can neither break nor rust; also to the wrought iron wheel, light and strong.

A shut-off, to prevent the escape of fertilizer when wheeling around end of row is a late improvement; one of those little things which go far, however, in making a tool valuable.

A first-class tool for the drilling of peas and corn.



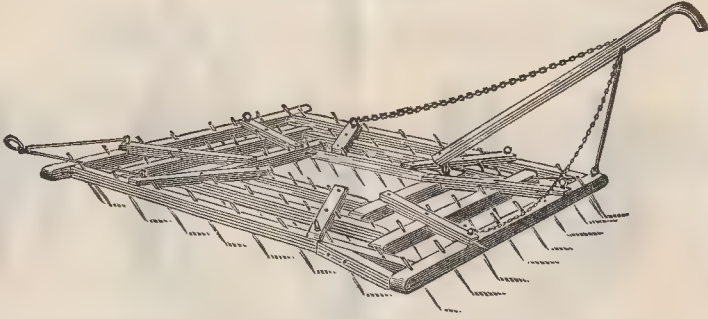


Fig. 22.

## THE "JACKSON" FLEXIBLE HARROW.

Patented February 21, 1882.

Packed Weight, 150 lbs.

Price, \$15.00.

This excellent implement we manufacture under a royalty, having the exclusive right for the following territory, viz: all the New England States, New York, New Jersey, Ohio, North and South Carolina and Florida. We give below a few of the reasons why the "Jackson" is superior to all other harrows.

1st.—Its perfect flexibility, being entirely unique in its idea of "doublejointedness." It will search out and more thoroughly harrow dead furrows, backings, and all inequalities of the surface than any other harrow made. It cannot dodge or trail.

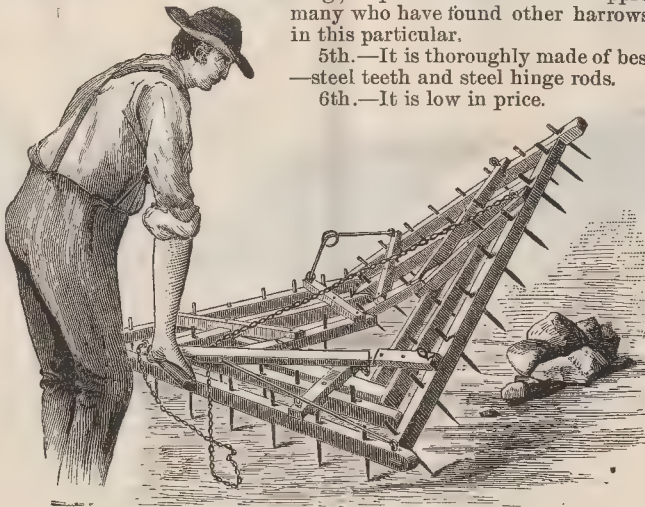
2d.—Its adaptability to different purposes; being a perfect smoothing harrow, and, by changing team to other corners, a cut is made by the inclined teeth, which far excels a straight tooth in its complete pulverization of the soil. It is a "terror" in this respect.

3d.—Ease of handling; owing to shape of harrow and peculiar location of lever, it requires but slight effort to raise the harrow in order to clear it, or pass obstructions; while at the same time, the pivot being centrally located, the whole half of harrow is cleaned from front to back.

4th.—It cannot turn over in turning; a point which will be appreciated by many who have found other harrows defective in this particular.

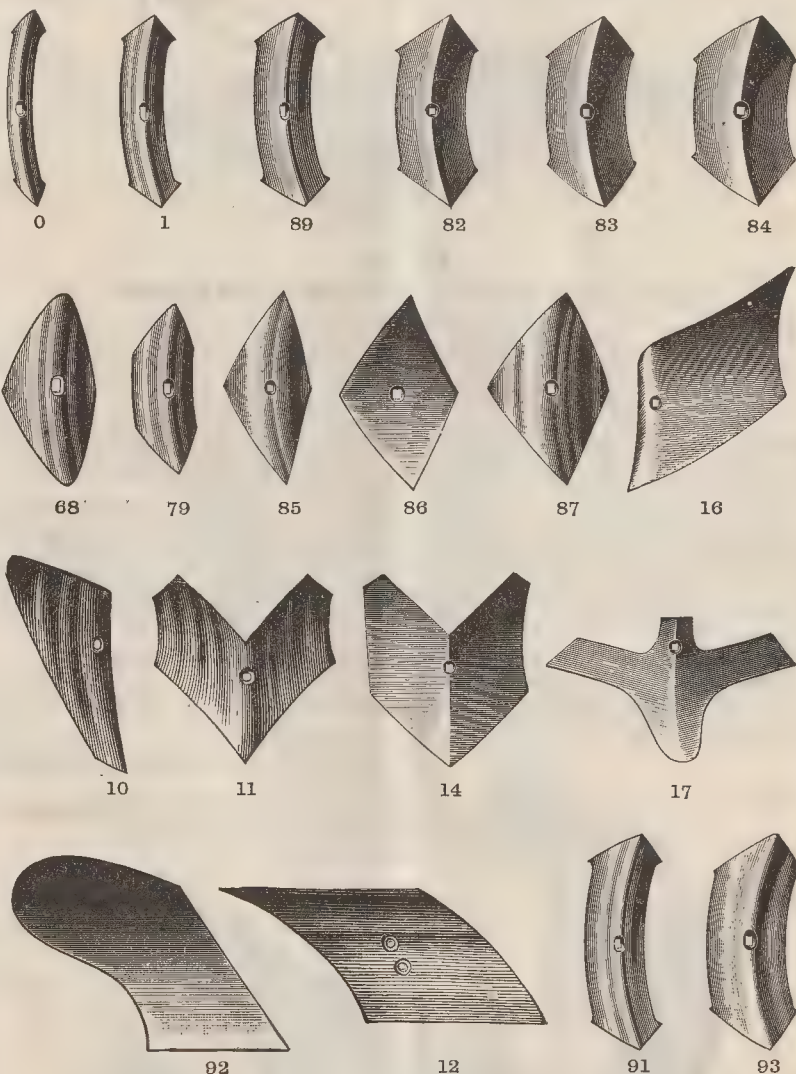
5th.—It is thoroughly made of best material—steel teeth and steel hinge rods.

6th.—It is low in price.



Cuts eight feet wide, 56 Steel Teeth.

## CULTIVATOR POINTS AND STEELS.



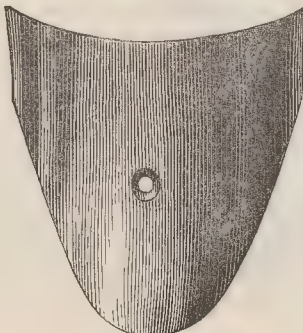
The manufacture of Agricultural Steels, and particularly Cultivator Points, has become a specialty with us, and, as a matter of convenience in ordering, we invite the attention of dealers and users to the list and cuts shown, being some of the leading styles.

All Steels and Points made of good steel, perfect in shape, well tempered and full polished.

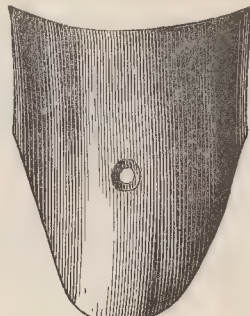


# LIST OF CULTIVATOR POINTS AND STEELS.

- No. 0.  $1\frac{1}{4}$  inches A great favorite among tobacco growers.
- No. 1. 2 " }
- No. 89.  $2\frac{1}{2}$  " } Largely used throughout the country ; this has become one of
- No. 82. 3 " } the standard shapes.
- No. 83.  $3\frac{1}{2}$  " }
- No. 84. 4 " }
- No. 68. 4 " The original pattern used on the "Iron Age" and still held as a favorite by many.
- No. 69.  $4\frac{1}{2}$  " Not shown in cut ; same shape as No. 68.
- No. 79.  $2\frac{1}{2}$  " A good point for small plants and nursery work.
- No. 85.  $3\frac{3}{4}$  " }
- No. 86. 5 " } Flat and oval diamond shapes, used in various sections of the
- No. 87. 5 " } country.
- No. 10. Turn Shovels, right and left hand.
- No. 11. Sweeps, 6 and 8 inches.
- No. 12. Moulds or shares, right and left hand, for "Iron Age" Horse Hoe.
- No. 14. A sweep that throws a stronger furrow than No. 11.
- No. 16. Turn shovel ; right and left hand ; larger than No. 10.
- No. 17. A sweep for perfectly flat cultivation—8, 10, 12 and 15 inch.
- No. 90.  $1\frac{1}{4}$  inches, for "Iron Age" Riding Cultivator. No Cut.
- No. 91.  $2\frac{1}{2}$  " " " " "
- No. 93.  $3\frac{1}{2}$  " " " " "
- No. 92. Plows, right and left hand, for "Iron Age" Riding Cultivator.
- Two sizes Shovel Blades—7x9 and 9x9 inches—intended especially for rear of Cultivators. Excellent for hilling purposes.



9x9



7x9

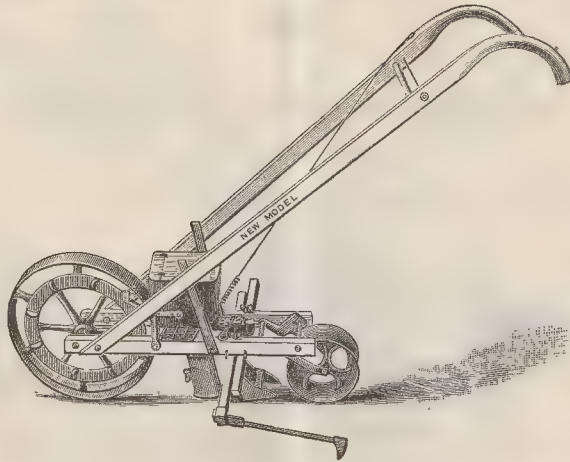


Fig. 28.

## THE "NEW MODEL" SEED DRILL.

The Most Perfect Drill in America.

Price, \$9.00.

The record of the "New Model" has been so entirely satisfactory, and its place as one of the leading drills has become so firmly established that we are almost tempted to discard the term "New." It is surprising to see how quickly it has been adopted by the seedsmen and market gardeners as an old friend.

In reference to the "New Model" Drill, we do not think it necessary to enter into a discussion about the necessity for and economy in the use of Seed Drills. Farmers and gardeners generally, we believe, are now well enough posted to understand and fully appreciate all these points. Suffice it to say that the "New Model" is the result of careful experimenting in the field and factory, in close comparison with leading drills, and, being constructed with the view of avoiding all radical defects of said drills, built in a workmanlike manner, of best material and in neat style and finish, we venture to assert it will be found to be the *best seed drill in use* and indeed a *model* in every respect. We invite attention to some of the leading features of the "New Model."

**Regulation of Discharge.**—Drills of similar construction are usually provided with a series of holes of varying sizes through which the seed is passed, which, of course, do not always give an opening of the exact size required. The operator is usually told, in substance, that "if one hole don't suit, try another."



## THE "NEW MODEL" DRILL.—Continued.

As will be readily seen, by reference to the sectional cut below, this adjustment is accomplished in a very simple and effective manner by use of a slide with a pear-shaped opening, passing under the bottom of the seed reservoir, which is provided with a perforation of similar shape in a reversed position. This slide can be instantly adjusted to size indicated by Index, or to a *hair-breadth variation between*—a vital point in a perfect seed drill.

**Index.**—As shown by enlarged cut below, the Index or Indicator is plain, convenient and reliable. It is placed in open sight immediately under the eye of the operator, and, as stated above, can be quickly adjusted to the slightest variation desired. As the names of the principal seeds are plainly shown on the Index itself, it is not necessary to refer to any table of reference.

**Cut-off.**—The flow of seed can be instantly stopped by a *swinging* cut-off, conveniently operated by a cord and ring on handle. This cut-off prevents all loss of seed at end of rows, and its swinging or gravity form will be found far preferable to one that slides under, as it cannot be jammed by the falling seed.

**Marker.**—Is simple, easily adjusted and firmly held.

**Broad Wheel.**—The main wheel is of large size and of *unusual* width, preventing its sinking into soft earth.

**Covering Roller.**—Is attached by swinging frame, enabling operator to roll lightly or otherwise, by varying the pressure on handles; or, as some object to use of roller, it, with its frame, can be quickly removed.

**Opening Plow.**—Is of *steel*, adjustable in depth.

**Handles.**—Firmly bolted, braced and adjustable in height.

*Each Drill crated and carefully packed for shipment.*

*Packed weight about 40 lbs.*

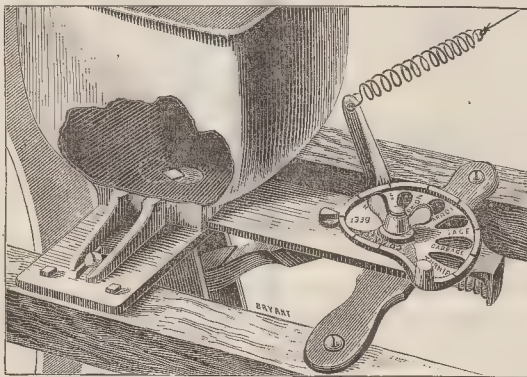


Fig. 29.

Sectional Cut, showing the perfect Index and manner of regulating the flow of seed by the slide, in connection with the Index. It also shows the application of the swinging cut-off.

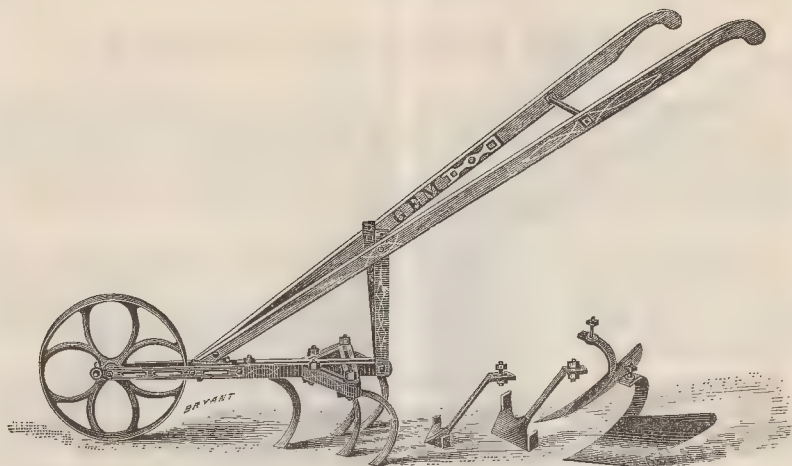


Fig. 30.

### THE "GEM OF THE GARDEN."

The Leading Garden Wheel Hoe and Cultivator.

Plain, with 5 Teeth only, \$4.00 ; complete, as shown, \$5.60.

No greater proof can be given of the popularity of a tool, or of its intrinsic worth, than the one simple fact of a *continued* demand for it. During the past few years, we have placed over *ten thousand* of the "Gem" Wheel Hoes in the hands of gardeners, and we are not aware of a single instance in which it has failed to give intense satisfaction to the user.

We fully believe it to be the most practicable tool, for every day use, that is offered to the gardening public.

It is not a toy ; neither is it a tool made of extremely light gray castings, calling for constant repair, the "Gem" being largely made up of *steel and malleable iron*.

The set of slender stirring teeth, each stamped from one piece of steel, cannot be excelled for thorough work, especially in hard soil.

The "Gem" is nicely finished, and when set up makes a handsome, quick selling implement.

Ask your dealer for the "Gem of the Garden," and take no other.

A wrench accompanies each tool. Sold **PLAIN** ( with five teeth only, ) or **COMPLETE**, as ordered.

Each Tool fully boxed for shipment. Weight, 25 lbs.



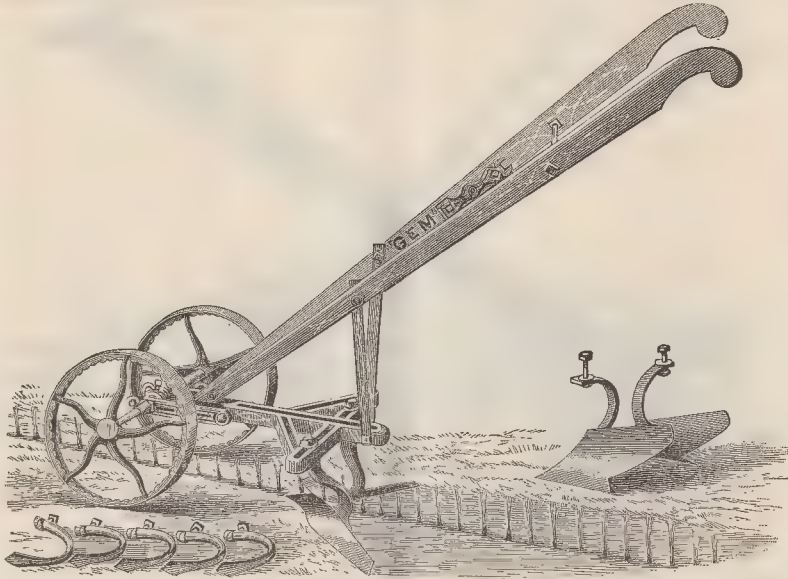


Fig. 31.

## THE "GEM" AS A DOUBLE WHEEL HOE.

Complete as shown, price, \$6.50.

As will be seen by cut above, we now also offer the "Gem" as a DOUBLE WHEEL HOE. For first and second working of crops the tool is used astride the row, while for subsequent hoeings the wheels can be closed together by means of the telescopic axles, and used between the rows as a single wheel tool. With the double wheel machine we usually send out the side hoes (as shown in cut), and with the single wheel, the scuffle hoe (see cut of single wheel machine), although the side hoes may be used effectively with the single wheel.

To anyone wishing to convert a single into a double wheel machine, we can furnish the wheels, axles, and side arms as an attachment. We also offer, as an attachment, a good sized plow, with landside, for use with either style "Gem." Works splendidly for various purposes—opens a straight, deep furrow.

Also, an Onion Set Gatherer, used by passing under the row. Makes a very good scuffle hoe. Can be used with either style "Gem," though more particularly adapted for the Double Wheel.

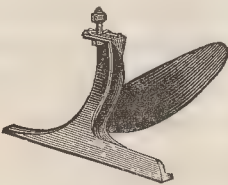


Fig. 32.

## LANDSIDE PLOW.

Price, 80 cts.



Fig. 33.

## ONION SET GATHERER.

Price, 80 cts.



Fig. 34.

### THE "JEWEL" DOUBLE WHEEL HOE, CULTIVATOR AND PLOW COMBINED.

Price complete, \$6.00 ; with Side Hoes only, \$4.50.

In these days of "intense" farming—with a liberal use of fertilizers and close planting of crops—economy demands the use of Wheel Hoes, not only in the small garden plot, but in the larger field as well. Economy, in the expenditure of manual labor, likewise demands that Wheel Hoes shall be constructed in such a manner and of such material as to insure *lightness* together with great strength. Ordinarily they are made of cast iron, and in the attempt to produce a tool sufficiently light, constant disastrous breaks while at work are the sure results. To accomplish the one and avoid the other, the entire frame of the "Jewel" Hoe is made of the best *malleable* iron, making an exceedingly light tool and one pleasant to handle, at the same time giving an almost absolute security against breakages.

The "Jewel" is capable of being quickly adjusted in depth or width of working, or height of handles. As shown in cut, it is provided with four slender stirring teeth, each one made of one piece of steel, unexcelled for thorough work, especially on hard soil ; one pair of side hoes, particularly intended for use among small plants ; also a pair of plows for throwing to or from the row, or for opening furrows. The standards of these hoes and plows are of malleable iron—no cast iron.

### THE "JEWEL" DOUBLE WHEEL HOES

Are Carefully Made, Handsomely Finished, and Weigh but 22 lbs. each, Complete.

FULLY BOXED FOR SHIPMENT.





Fig. 60.

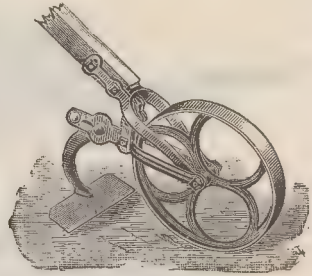
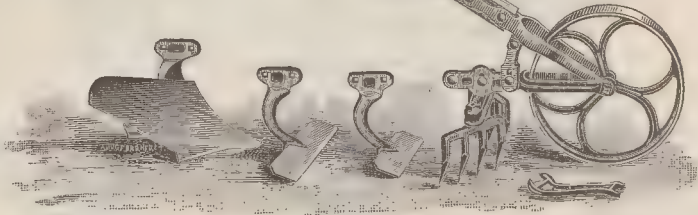


Fig. 35.

Price with two hoes,  
\$2.75.



### The "Jewel" Single Wheel Hoe, Rake and Plow, Combined.

Price, \$5.00.

Like the Double Wheel "Jewel," this tool is constructed entirely, with the exception of wheel and handle, of *malleable iron and steel*.

As plainly shown by the cuts, it is capable of several combinations—a simple, very easy working scuffle hoe, with hoes of six and nine inches in length; as a rake, or as a large-sized wheel plow. The rakes we have recently substituted for the steel teeth as being better adapted to the size of the tool, and the work demanded.

They are adjustable at any angle; and the teeth are of such shape that a sharp drawing cut can be made, thereby working very close to small plants without disturbing them by pushing the crust of the soil. The "Jewel" is adjustable in every way, thoroughly well made and finished, and is, we believe the *lightest* and *strongest* tool of its kind made. Weight complete, but 15 pounds.

We offer it in its full combination; as a scuffle hoe, with two hoes; or wheel plow only, as shown below.

We would call the attention of onion growers particularly, to the single wheel "Jewel" as being especially adapted to their needs.



Fig. 37.

### The "Jewel" Wheel Plow.

Price, \$2.75.

Malleable Iron Frame.

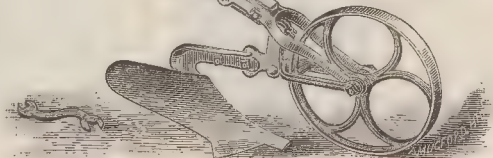
Light and Strong.

Weight only 10 pounds.

Adjustable in depth of working, and height of handle.

As a Wheel Garden Plow, we are confident none can be found to excel or equal it.

Carefully Boxed



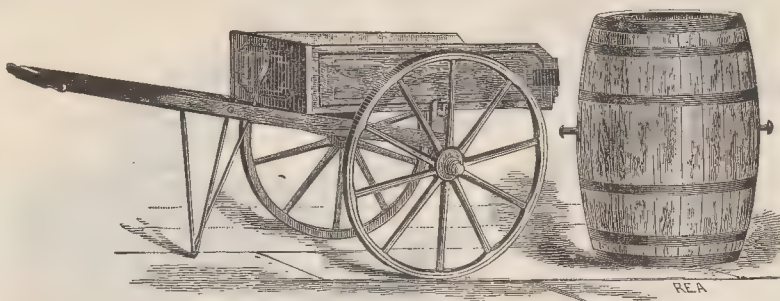


Fig. 46.

### COMBINED BARREL TRUCK AND HAND-CART.

Price Complete, as shown, \$16.25.

With Wheels,  $1\frac{1}{2}$  Inches Tread.

When we consider the almost innumerable uses to which our Combined Truck and Hand-cart can be applied, its "handiness" and the immense amount of time and hard labor saved by its use, it is not a matter of surprise that it is steadily growing into popular favor. It is one of those articles that cause the user to wonder how he ever did without it, as it really becomes indispensable when once used.

The barrel is raised from the ground, carried to the place desired and *instantly detached*, all *without handling*. The weight being balanced over the axle, no lifting or down pressure is needed in transportation.

Other barrels for various purposes can be used as needed, extra trunnions being furnished if desired, which can be readily attached to any oil or spirit barrel, thus increasing indefinitely the value of the truck.

We have wheels of  $1\frac{1}{2}$ ,  $2\frac{1}{2}$ , and 4 inches tread, *but always send Truck with wheels  $1\frac{1}{2}$  inches, unless otherwise specified.*

We also supply a Box, (as shown in above cut) with trunnions and spring catch, making a very superior *dumping* Hand-cart.

No castings to break: all iron of best wrought.

Very stiff, compact, handsome and low in price.

Furnished with or without Barrel or Box, as ordered.

Fig. 47.

Truck only, price, \$10.00; with barrel, \$12.50.

With Wheels  $1\frac{1}{2}$  Inches Tread.

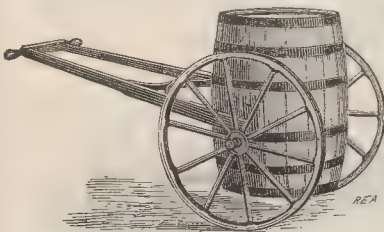


Fig. 63.

Price, Leaf Rack only, \$6.00.

Have recently added a very light Leaf Rack, which will be found extremely convenient for the cartage of leaves, cut grass from the lawn, etc.

Knocks down *flat*, taking very little room for storage.



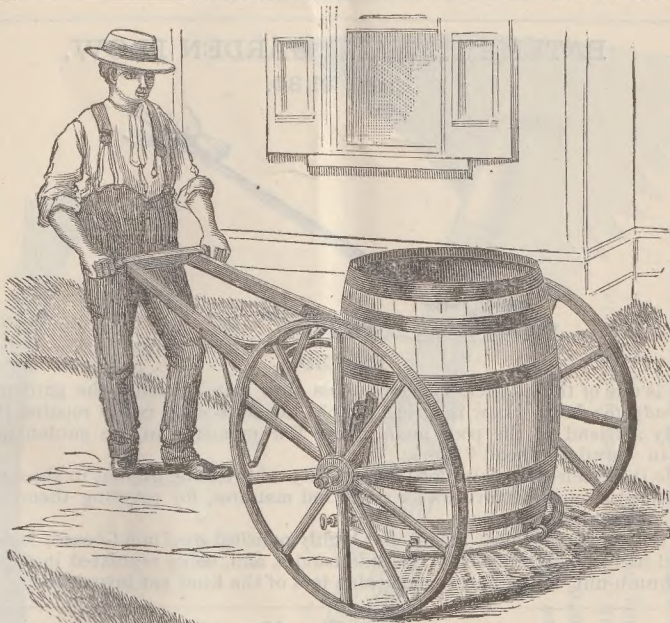


Fig. 48.—Showing Sprinkler Attachment. Price, \$3.50.



Fig. 49.—Brass Force Pump. Price \$6.00.

attention to it as being so well adapted to the modern idea of spraying trees and shrubbery with insecticides; for this purpose, nothing can exceed the convenience of our Water Truck, with Pump attached.

As shown by cuts on this page, we have recently largely increased the usefulness of our Barrel Truck by the addition of a first-class *Sprinkler* and *Force Pump*, both being sold as attachments, and easily applied to barrel. The Sprinkler is invaluable for watering lawns and sprinkling walks about houses, railroad stations, cemeteries, etc. It consists of a perforated wrought iron pipe, bent on a circle, thus throwing the water outside the wheels. Water is turned on and off by hand wheel and ball valve. The uses to which the Force Pump can be applied are innumerable—washing windows and carriages, spraying trees, watering plants and hot-beds—in fact it is an admirable Garden Engine, and would do good service at an incipient fire. The pump is all brass, works very easily, and is capable of throwing a stream 40 feet.

We have lately made a change in the construction of our Force Pump, now using a brake, whereby it is made more convenient and easier in operation. We would especially call

**BATEMAN'S HAND GARDEN PLOW.**

Price, \$1.30.

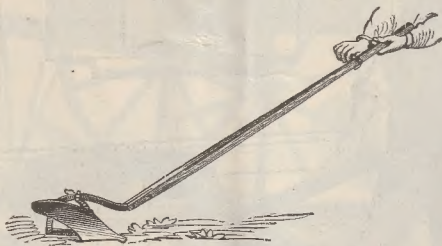


Fig. 39.

This is one of those quiet, effective tools that stand against the garden fence, *always ready for duty*. Low in price, simple, never needing costly repairs, it is emphatically a friend of the poor man, whose few moments in the garden must be devoted to "straight ahead" work.

While it is useless to claim for it the ability of breaking ground in the spring, it is very useful in opening furrows for seeds and manures, for covering them, and for tending the crops afterwards.

It is built on a very neat model, has highly polished steel mold-board, is carefully made and handsomely finished. Has side handle, and, being regulated in depth by a simple thumb-nut, is the most manageable tool of the kind yet introduced.



Fig. 40.

**TRANSPLANTING TROWEL. Solid Steel.**

Largely used by Truckers in transplanting sweet potatoes, cabbage, etc., etc. Price each, 40 cents.



Fig. 45.

**Asparagus Knife  
SOLID STEEL**

Price each, 25 cts.



Fig. 42.

**EUREKA CORN KNIFE.**

Solid Steel. Price, 40 cts.

Curves forward and upward. A favorite pattern in Philadelphia trade.



Fig. 43

**VINE CUTTER.**

For cutting vines of sweet potatoes. Saves the back.

Price, 50 cts.



Fig. 50.

**The "Sylvan" Pruning Shears.**

With patented guard hook. Very powerful, though light. Weighs only 2½ lbs. Best shears on the market. Price, \$1.75.



Fig. 51.

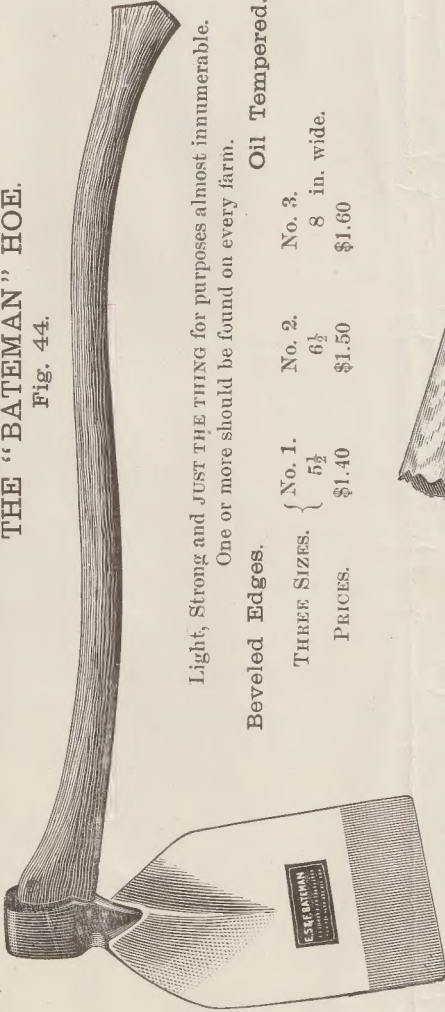
**The "Eagle" Trimming Knife.**

Especially adapted to the wants of berry growers. Very light and convenient. Price, \$1.25.



# THE "BATEMAN" HOE.

Fig. 44.



Light, Strong and JUST THE THING for purposes almost innumerable.  
One or more should be found on every farm.

Beveled Edges.

Oil Tempered.

THREE SIZES.	No. 1. {		No. 2. {		No. 3. {	
	5½		6½		8 in. wide.	
PRICES.	\$1.40		\$1.50		\$1.60	

# THE "SUPERB" HOE.

A Triangular, Concave, Toothed Hoe for Field or Garden Use. Price, 75 cents each.

Neat, Light, Effectual and Easy to Operate.

It will do any kind of work, pulverizing and raking the soil with the teeth; cutting and scraping with the straight sides; hard digging, opening furrows, thinning plants, and removing weeds without stooping, with the curved trowel point.

The hollow socket for the handle, by an ingenious construction, is solidly secured to the blade without a rivet or weld—cannot get loose or break, and handle can easily be driven out. A first-class tree scraper.

Blade of best hoe steel, tempered all over, and fully warranted. Each half dozen carefully crated.

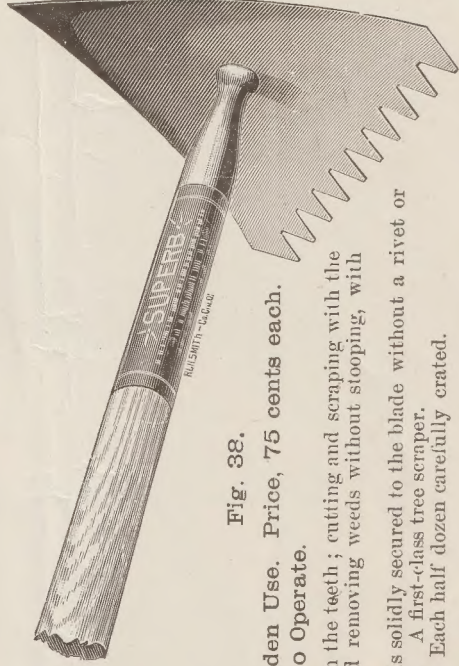


Fig. 38.



